

## A. GENERAL CHARACTERISTICS

Design standards	:	IEC 76
Transformer type	:	Hermetically Sealed Totally Oil Filled
Service Condition	:	INDOOR
Type of oil	:	Mineral Oil Class 1 acc. to IEC 296
Number of phase	:	3 Phase
Frequency	:	50 Hz

## B. TECHNICAL SPECIFICATION

Capacity	:	3000 kVA
Primary Voltage	:	20 kV
Secondary Voltage	:	0.4 kV
Vector Group	:	Dyn5
Cooling	:	ONAN
Temperature Rise - Oil	:	60 oC
- Winding	:	65 oC
No load losses at nominal voltage	:	3700 Watts
On load losses at principal tapping	:	34000 Watts
Impedance voltage	:	7 %
Off load current at nominal voltage	:	1.7 %
Temperature Insulation Class	:	A
Noise	:	62 dB
Off Circuit Tapping value	:	+/-2.5%; +/-5%

## C. INSULATION CLASS OF THE WINDINGS

	Primary	Secondary
Highest system voltage (kV)	24	1.1
Impulse test voltage (kV)	125	0
Applied test voltage (kV)	50	3

## D. EFFICIENCY AND VOLTAGE REGULATION

	Efficiency ( % )				Voltage Regulation	
	4/4 load	3/4 load	2/4 load	1/4 load	in Volt	in %
Pf 0.8	98.45	98.75	98.99	99.04	379	5.17
Pf 1.0	98.76	99.00	99.19	99.23	395	1.37

## E. APPROXIMATE WEIGHTS AND DIMENSION

Total length	:	2,620 mm
Total width	:	1,530 mm
Total height	:	2,100 mm
Weight of oil	:	1,645 kg
Weight of core and winding	:	2,700 kg
Total weight	:	6,400 kg
Approximate Drawing No.	:	
Painting Colour	:	Light Grey RAL 7032

The above dimensions and masses are approximate and provided to give a general description of our proposed transformer.

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**F. ACCESSORIES**

- Name Plate and Rating Plate
- HV Plug in Bushings and LV Porcelain Bushings
- Off Circuit Tap Changer
- Oil Filling Valve
- Oil Draining Valve
- Lifting Lugs
- Grounding Terminal
- Protection Relay RIS
- Pressure Relief Device Without Contact

**G. DEVIATIONS / EXCEPTIONS**

- None

**H. NOTES**

- None

**I. LIST OF TEST**

Routine Test :

	Yes	No
- Measurement of the resistance value and checking of polarities :	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Measurement of the ratio on all taps :	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- No load test for measurement of the no load loss and no load current :	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Short circuit test for determination of the on load loss and impedance :	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Applied voltage test :	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Induced voltage test :	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Type test :

- Temperature rise test :	<input type="checkbox"/>	<input checked="" type="checkbox"/>
- Full wave impuls test ( 1.2 / 50 us ) :	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Tests other than the above mentioned list needs further confirmation**

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